Active vibration reduc-CH-47 Chinook cargo helicopter tion system - less vibration Replacement of worn wear on parts, improved About 380 of these Army workhorses, first introduced components - minimizing component life fluid leakage in the early 1960s, will be completely remanufactured - including a new fuselage - over the next 17 years. Approximately 50 more will be built. New digital Reduced avionics amount of hazsafer flight, ardous chromireduced crash risk um used during aluminum pre-Highly leak-resistant While the Army is developing its weapons to defend our nation in the 21st extended-range fuel - prolongs engine life, century, modern technology allows efficient designs that are more friendly More powerful reducing maintenance and **Joint Common Missile** and fuel-efficient engines with associated waste disposal to the environment as well as more lethal to our enemies. The impact of fewer hazardous components The Joint Common Missile is an extended range, precinew weapons systems on Soldiers and the land where they train and work sion guided, air-to-surface weapon for use by joint service Modular design extends service and allied manned and unmanned aircraft. About 49,000 life and reduces the amount that is now considered at every step of the life cycle of a weapon system, from will replace the Hellfire, TOW, and Maverick over the next must be disposed. Obsolete and two decades. expired parts, rather concept to disposal. than the whole missile, can be replaced Upgradable Legacy Missile System to safer munitions Seamless lower hull contains fuel spills and leaks Weapon station catch bags used during training hold Stryker combat vehicle shell casings for recycling The Stryker joined the Army inventory in 2002 and is already seeing action in Operation Iraqi Freedom. Ozone-depleting compounds With more than 2,000 of the vehicles in 10 configuremoved from the fire suprations on order, the light armored vehicle is changing pression system in the the way the Army fights. engine and crew compartments Hazardous hexavalent chromium eliminated from paint primer, zinc plating, Legacy Combat Vehicle and aluminum parts MII3 Årmored Personnel Carrier) Dil exchanger mixes used engine oil with diesel to reduce the possibility of waste oil spilling during changes Technical manual safe disposal of Ozone-depleting comcontaminated water ARMY ACQUISITION LIFE CYCLE Environmental considerations pounds eliminated from in the hull the air conditioning systen milestone B milestone C pre system acquisition authority to begin developing technology authority to begin developing & demonstrating the system system acquisition authority to begin production sustainment design readiness review system development and demonstration LIFE CYCLE concept refinement technology development operations & support production & deployment creating, testing, and refining determining needs to be met determining what meets Army needs The Army develops an Environmental Assessment and, Safety and Installations where the system will be - Disposal Another program-wide - Environmental An environment, safety Environmental specification Environmental experts Technical manuals Units training with the system and occupational health experts are part of environment, safety, and occupational health professionals review if necessary, an Environmental Impact Statement have a say in the are validated for used prepare their own site-specific Environmental are written into design prepare Environmental **ENVIRONMENTAL** the Integrated Product evaluation for the program contractor selection process operation, repair for the entire program. These documents, required under Environmental Assessments, and if and comment on the requirements presented Assessments and, if necessary, Assessment and FOCUS ON capabilities and is required before system the National Environmental Policy Act, are updated to potential contractors evaluation is done before necessary, Environmental Impact **Environmental Impact Statements** Team from the and monitor the work Environmental SYSTEM'S the Army authorizes beginning. development and testing begins. throughout the acquisition phase and finalized who will turn the design for compliance with Statements based on program-wide based on installation and program Impact Statement. requirements for LIFE CYCLE before full-rate production. documents and local conditions. into hardware. environmental standards. documents and their own needs. the new system. production. **DETERMINE CONSEQUENCES & DEVELOP MITIGATION MEASURES IDENTIFY POTENTIAL CONSEQUENCES**